Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 4)

Exam ID : TEST/2024/01/05134501 Report Generation Date : 3/26/2024 3:00:17 PM

Q1: The ratio between a two-digit number and the sum of the digit of that number is 3 : 1. If the digit in the unit's place is 5 more than the digit in the ten's place, what is the number?

A: 38

B: 27

C: 16

D: 49

Answer: B

Q2: What number should be added to -8/13 to get -8/5?

A: 63/65

B: -63/65

C: -64/65

D: -1

Answer: C

Q3: Which of the following rational numbers lies between 8/5 and 13/10?

A: 7/5

B: 6/5

C: 17/10

D: 11/10

Answer: A

Q4: Sanjay decided to do his history homework a little bit each night. On the first night he did 1/6 of the homework, the second night he completed 1/5 of the homework, and the third night he worked 1/2 of the homework. How much of the homework has Sanjay completed?

A: 13/16

B: 11/15

C: 11/16

D: 13/15

Answer: D

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Q5: A student was asked to divide a number by 8 and add 16 to the quotient. He, however, first added 16 to the number and then divided it by 8, getting 126 as the answer. The correct answer should have been?

A: 142

B: 140

C: 118

D: 136

Answer: B

Q6: Sum of two rational numbers is 9/5. If one of them is -3/7, then find the other rational number.

A: 48/35

B: 43/35

C: 78/35

D: 71/35

Answer: C

Q7: Find the cost of 23/5 meters of cloth at Rs. 137/4 per meter.

A: Rs. 3151/20

B: Rs. 3141/20

C: Rs. 3171/20

D: Rs. 3131/20

Answer: A

Q8: A car is moving at an average speed of 402/5 km/hr. How much distance will it cover in 17/4 hours?

A: 3414/10 km

B: 3454/10 km

C: 3417/10 km

D: 3467/10 km

Answer: C

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Q9: Which of the following forms a pair of equivalent rational numbers?

A: 28/35 and 36/45

B: 36/42 and 30/36

C: 40/45 and -35/40

D: -27/36 and -18/27

Answer: A

Q10: Express 1.242424..... in the form p/q, where p and q are integers and q is not equal to zero.

A: 31/25

B: 5/4

C: 41/33

D: 37/30

Answer: C

Q11: Simplify the following: (51/2 + 111/2)2 + (51/2 - 111/2)2

A: 32

B: 25

C: 34

D: 30

Answer: A

Q12: Simplify and find the value of: (64)(1/3)/(64)(1/6)

A: 4

B: 8

C: 1

D: 2

Answer: D

Q13: If x = 1 - 21/2 then the value of x3 - 1/x3 is:

A: 8

B: 27

C: 14

D: 10

Answer: C

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Q14: Simplify the following: (81/2 + 141/2)2 + (81/2 - 141/2)2

A: 50

B: 64

C: 28

D: 44

Answer: D

Q15: Find: 36/7 + 17/7 × 35/68

A: 169/28

B: 173/28

C: 165/28

D: 179/28

Answer: D

Q16: Find the multiplicative inverse of: (-42/5) × (-1/8)

A: -20/21

B: -21/20

C: 20/21

D: 13/42

Answer: C

Q17: Rationalize the denominator of: 7/[(108)1/2 - (96)1/2 + (192)1/2 - (54)1/2]

A: [2(3)1/2 + (6)1/2]/6

B: [(3)1/2 + (6)1/2]/6

C: [2(3)1/2 + 3(6)1/2]/6

D: [3(3)1/2 + (6)1/2]/6

Answer: A

Q18: Find the value of: (7/16) × [–5/2 + 28/5]

A: 161/112

B: 189/136

C: 223/152

D: 217/160

Answer: D

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Q19: Find the multiplicative inverse of: (36/16) × (21/5)

A: 20/189

B: 15/163

C: 24/205

D: 18/193

Answer: A

Q20: Find: (12/32) + [(103/24) × (18/412)]

A: 9/16

B: 5/8

C: 7/15

D: 3/4

Answer: A

Q21: What number should be added to 23/15 to get –6/23?

A: –584/345

B: –619/345

C: 584/345

D: 619/345

Answer: B

Q22: Find the multiplicative inverse of: [(16/28) × (1/6)] + 9

A: 21/191

B: 20/191

C: 23/191

D: 25/191

Answer: A

Q23: Simplify the following: [(18)1/2 + (13)1/2]2 + [(18)1/2 – (13)1/2]2

A: 64

B: 60

C: 62

D: 65

Answer: C

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Q24: Find the cost of 604/9 meters of cloth at Rs. 360 per meter.

A: Rs. 24140

B: Rs. 24150

C: Rs. 24160

D: Rs. 24180

Answer: C

Q25: Neeraj earns Rs. 80000 per month. He spends 1/5 of his income on food; 7/12 of the remainder on house rent and 7/10 of the remainder on the education of children. How much money is still left with him?

A: Rs. 8200

B: Rs. 7800

C: Rs. 9000

D: Rs. 8000

Answer: D

Q26: Simplify the following: [25 + 10(6)1/2][25 – 10(6)1/2]

A: 25

B: 20

C: 35

D: 15

Answer: A

Q27: Simplify the following: (841/2 + 61/2)2 + (841/2 – 61/2)2

A: 168

B: 180

C: 156

D: 192

Answer: B

Q28: If x = 51/2 – 41/2 then the value of x2 + 1/x2 is:

A: 15

B: 14

C: 18

D: 21

Answer: C

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Q29: A wire of length 725/3 m has been cut into 25 pieces of equal length. What is the length of each piece?

A: 26/3 m

B: 28/3 m

C: 29/3 m

D: 32/3 m

Answer: C

Q30: What number should be subtracted from 28/13 to get –5/21?

A: – 653/273

B: – 648/273

C: 648/273

D: 653/273

Answer: D